

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

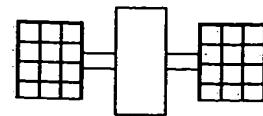
- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**



Geo-synchronous Satellite



Right or Left Hand  
Circularly Polarized Signal

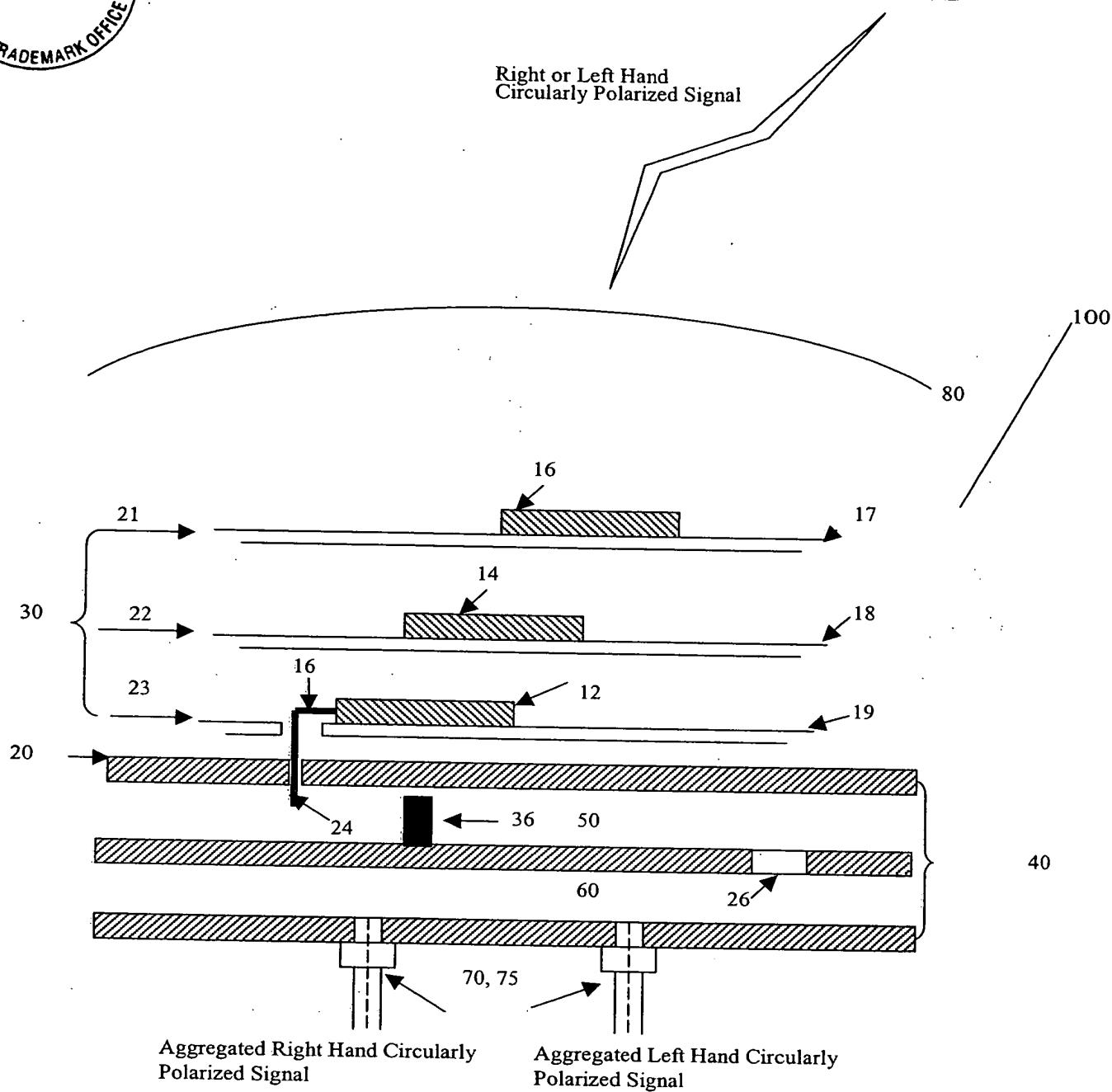


FIGURE 1

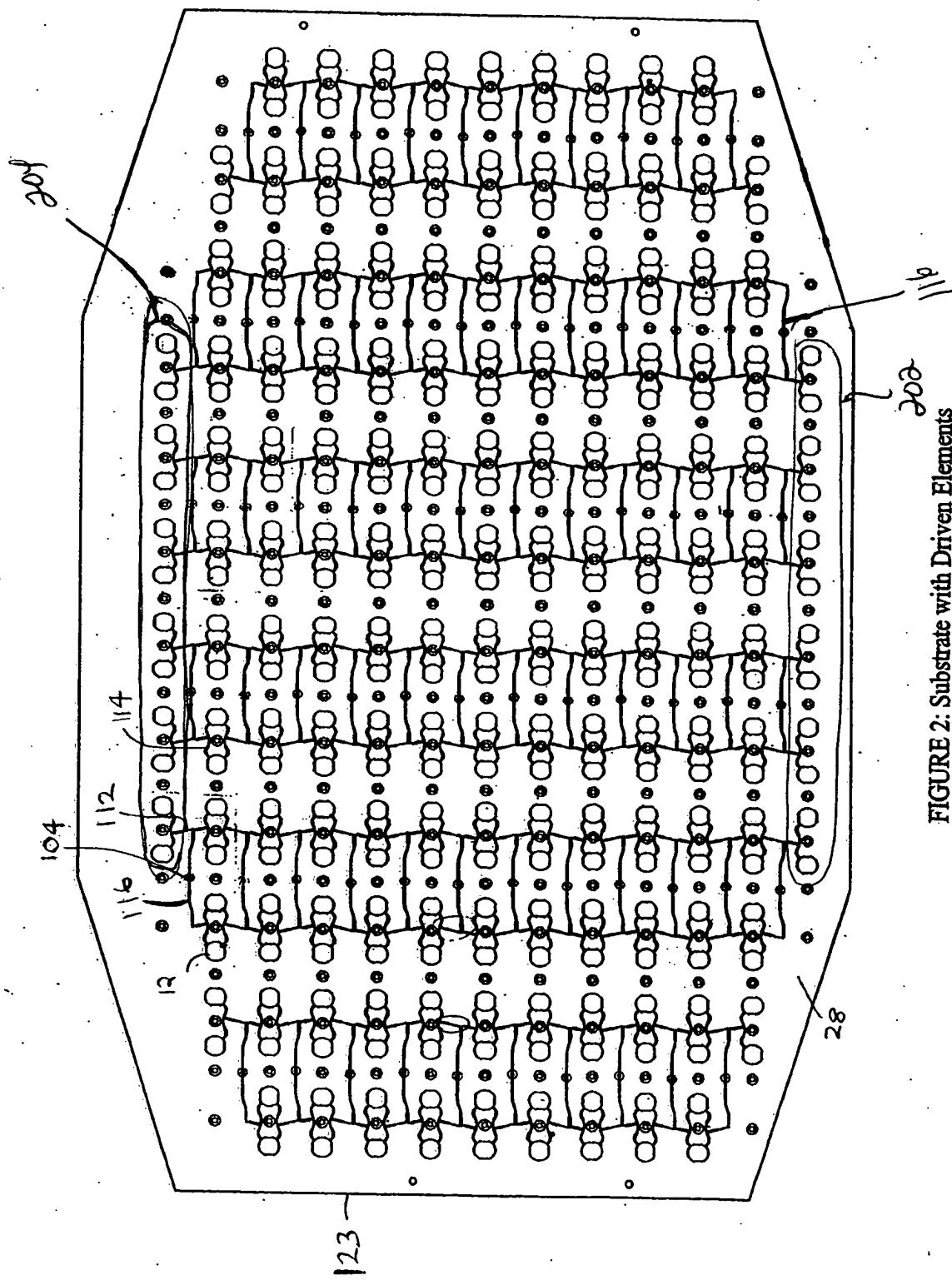


FIGURE 2: Substrate with Driven Elements

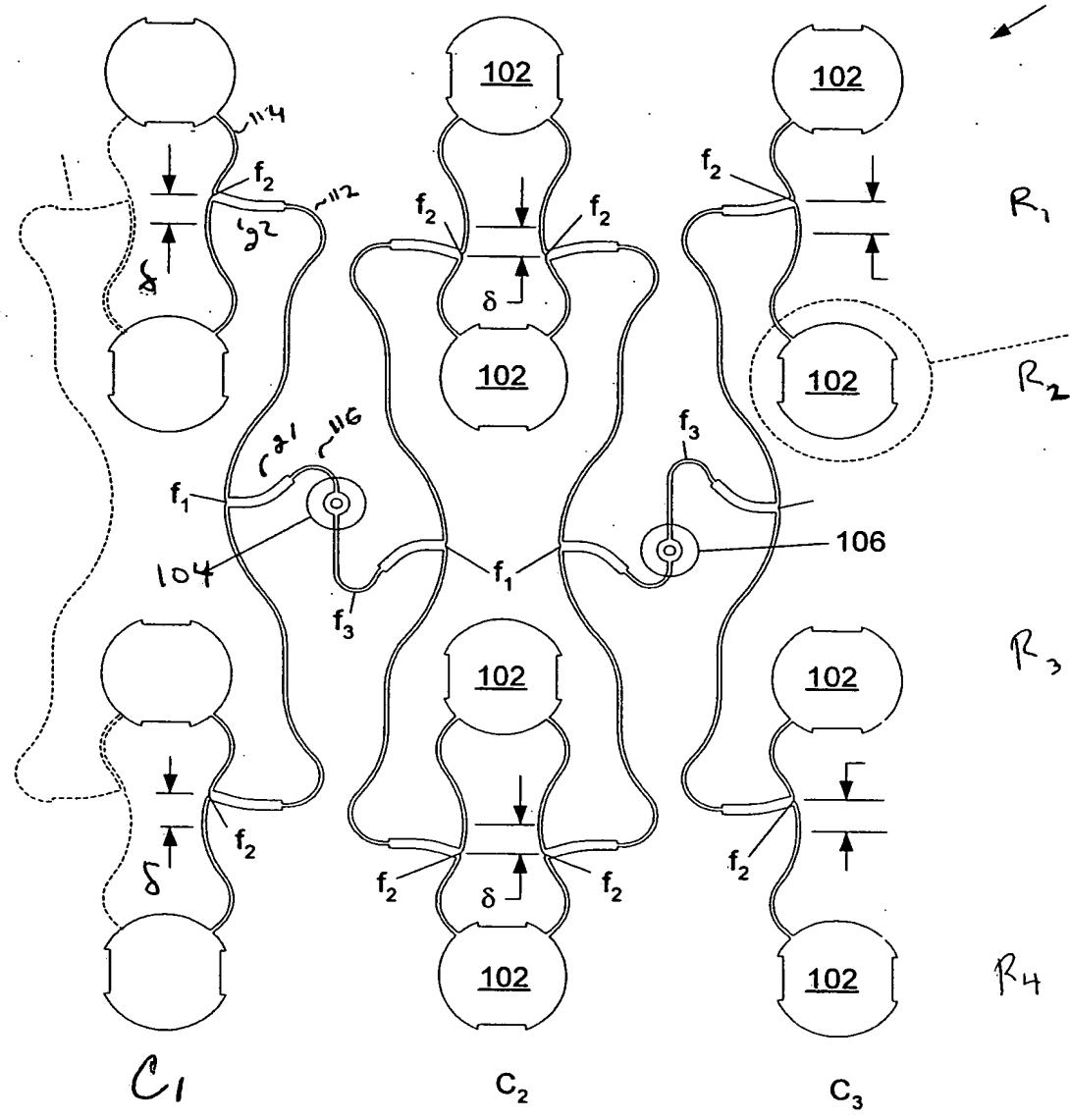


FIG. 3

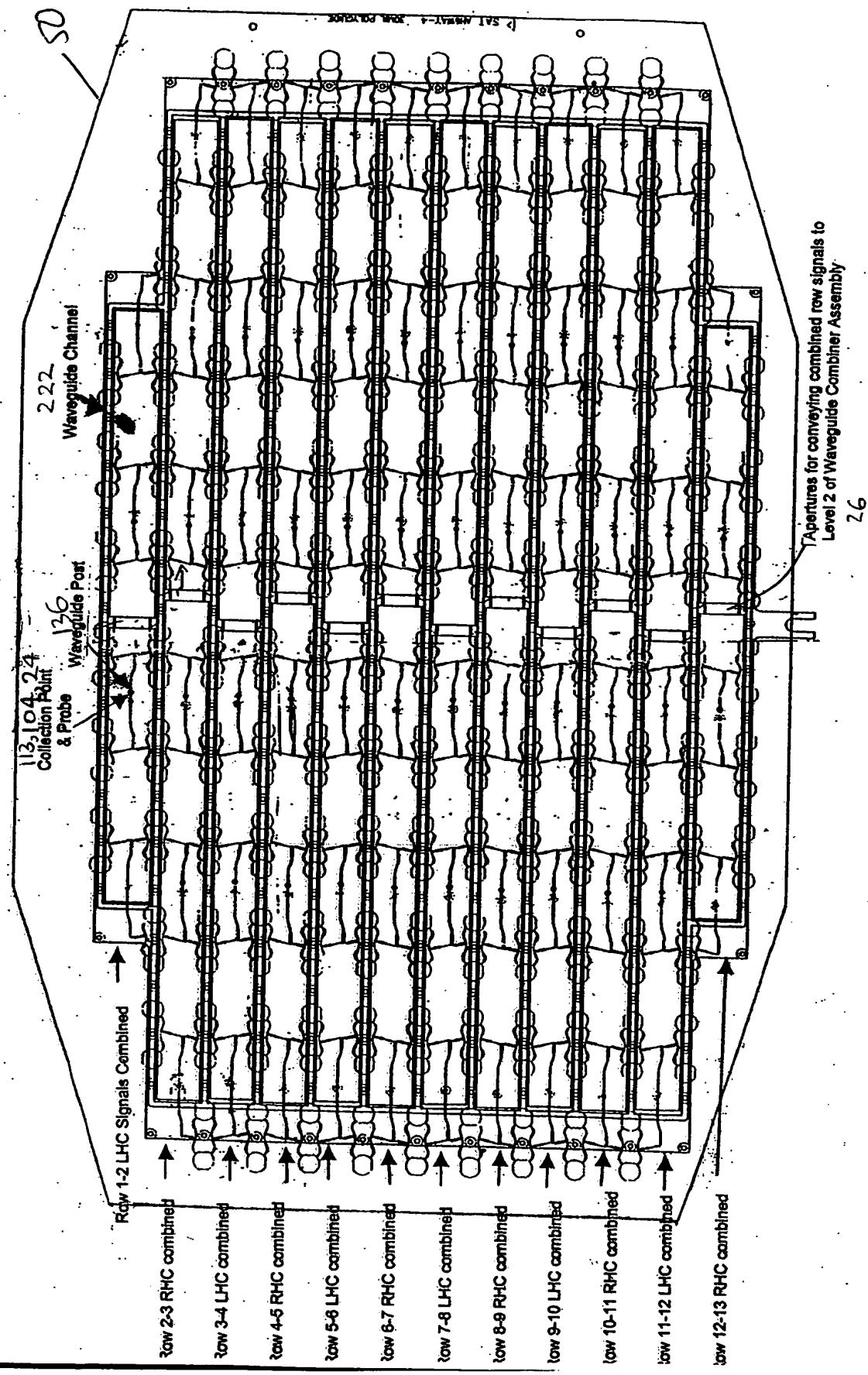


FIGURE 4: Level One of Waveguide Combiner Assembly (Showing Driven Patch Elements Above)

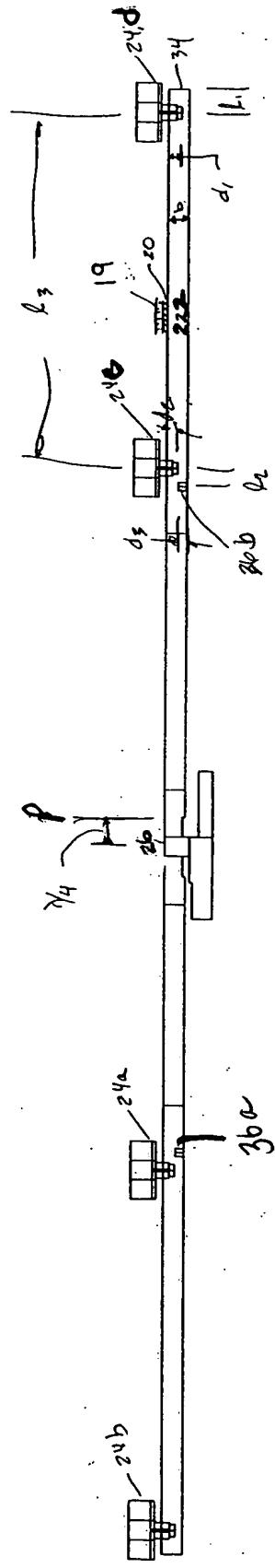
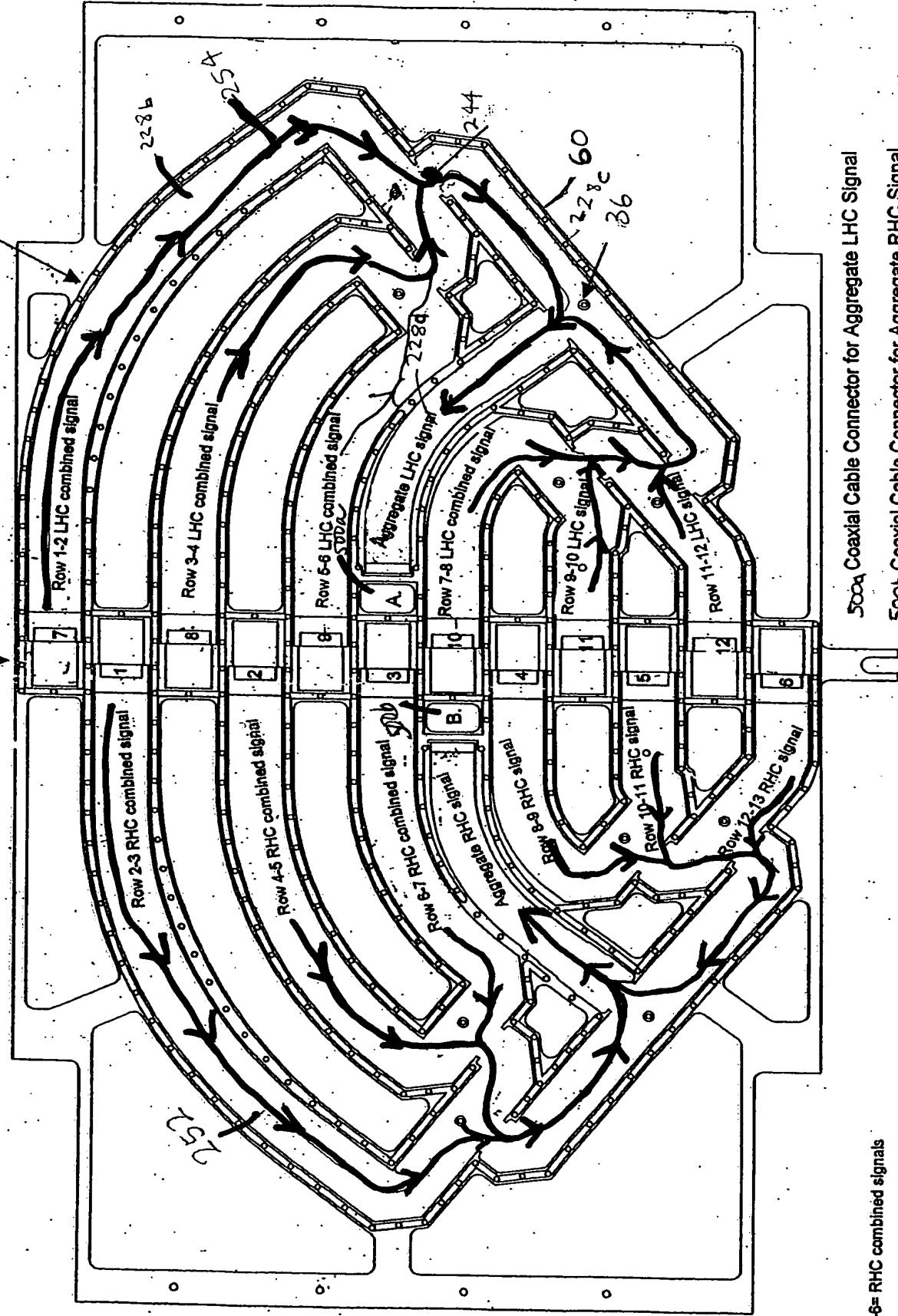


Figure 5

Explane junctions (1-12)

Arched Waveguide Walls



500a Coaxial Cable Connector for Aggregate LHC Signal

500b Coaxial Cable Connector for Aggregate RHC Signal

FIGURE 6: Level Two of Waveguide Combiner Assembly

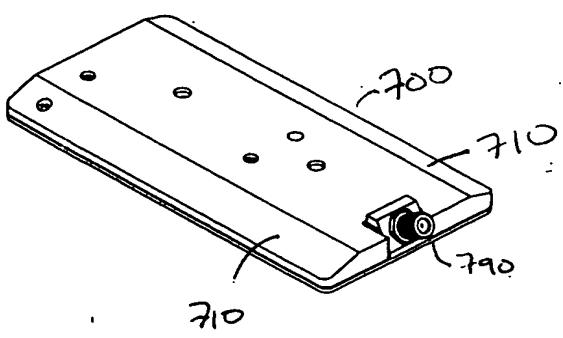


Figure 7B

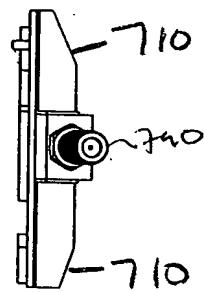


Figure 7C

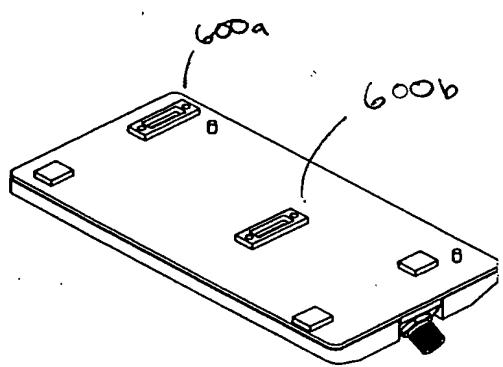
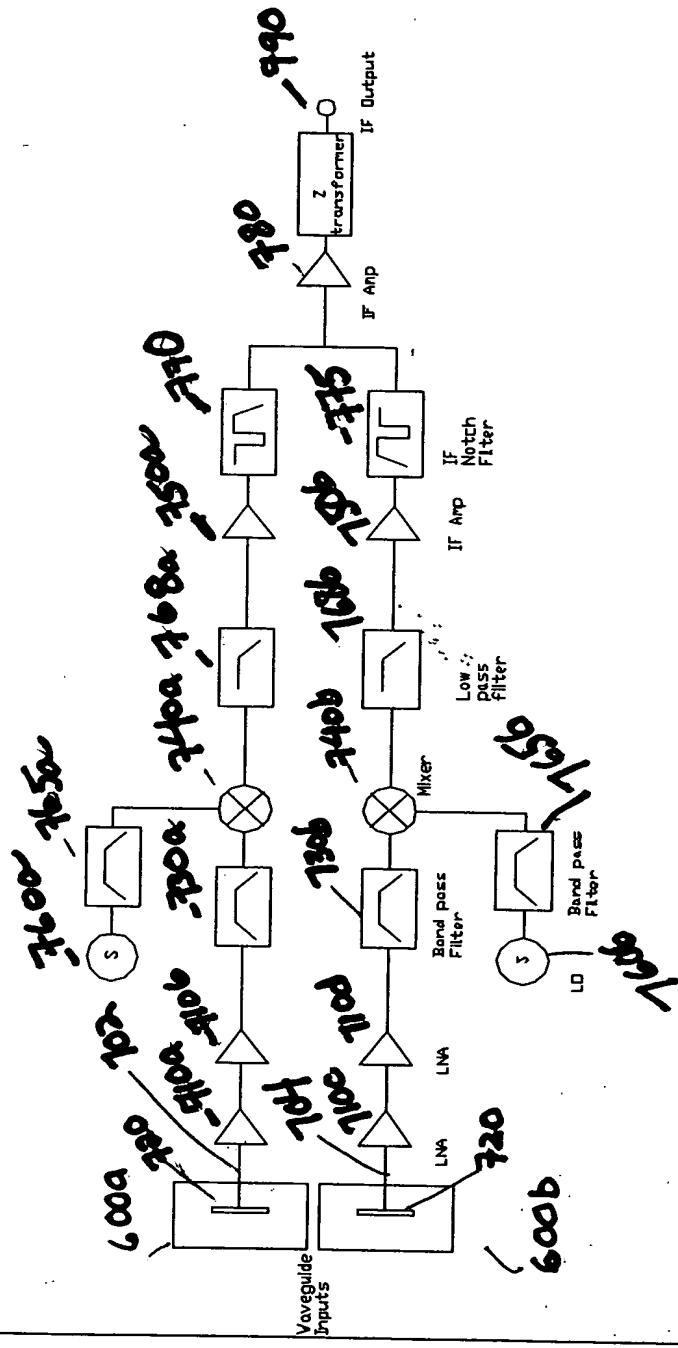


Figure 7A

FIGURE 7.

## STACKED LNB



## FIGURE 8